



# SAN DIEGO COUNTY INFLUENZA SURVEILLANCE

## 2017-18 YTD

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THROUGH WEEK 8, ENDING 2/24/2018



# CURRENT UPDATE

Reported Influenza Cases Since July 1, 2017



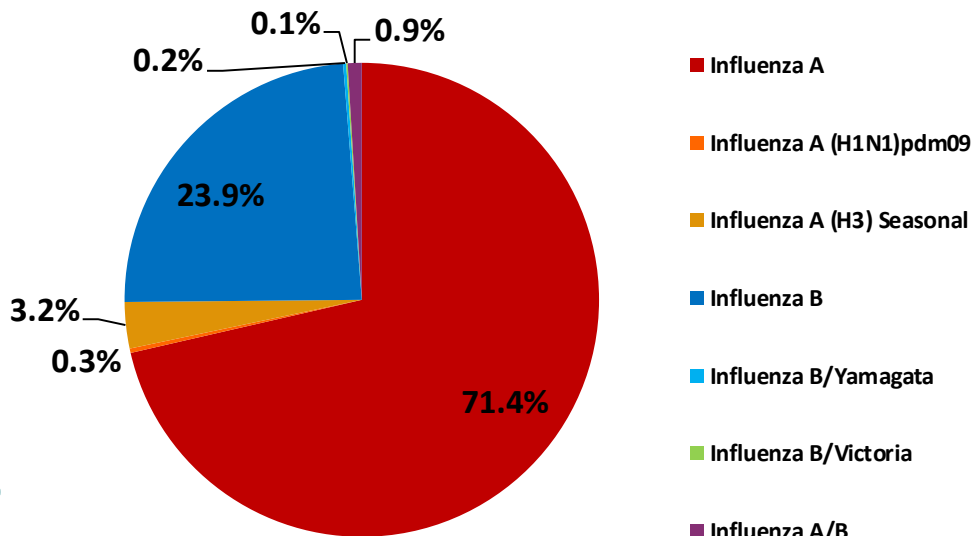
17,375

TOTAL REPORTED  
INFLUENZA CASES

267 ICU CASES

283 DEATHS

112 OUTBREAKS



2/28/2018

Preliminary Results  
Data Source: Reported Influenza Case Reports  
Prepared by County of San Diego, Health & Human Services Agency,  
Public Health Services, Epidemiology and Immunization Services Branch

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Table 1. Influenza Surveillance Indicators**

Indicator	FY 2017-18*			FY 2016-17		Prior 3-Year Average**	
	Week 8	Week 7	FYTD <sup>#</sup>	Week 8	FYTD <sup>#</sup>	Week 8	FYTD <sup>#</sup>
All influenza detections reported (rapid or PCR)	501	767	17,375	338	4,124	522	4,609
Percent of emergency department visits for ILI	3%	5%		5%		5%	
Percent of deaths registered with pneumonia and/or influenza	8%	10%		12%		9%	
Number of influenza-related deaths reported <sup>^</sup>	14	18	283	8	57	6	46

<sup>#</sup> FYTD=Fiscal Year To Date (FY is July 1- June 30, Weeks 27-26). Total deaths reported in prior years: 87 in 2016-17, 68 in 2015-16, and 97 in 2014-15.

\* Previous weeks case counts or percentages may change due to delayed processing or reporting.

\*\* Includes FYs 2014-15, 2015-16, and 2016-17.

<sup>^</sup> Current FY deaths are shown by week of report; by week of death for prior FYs.

Preliminary Results

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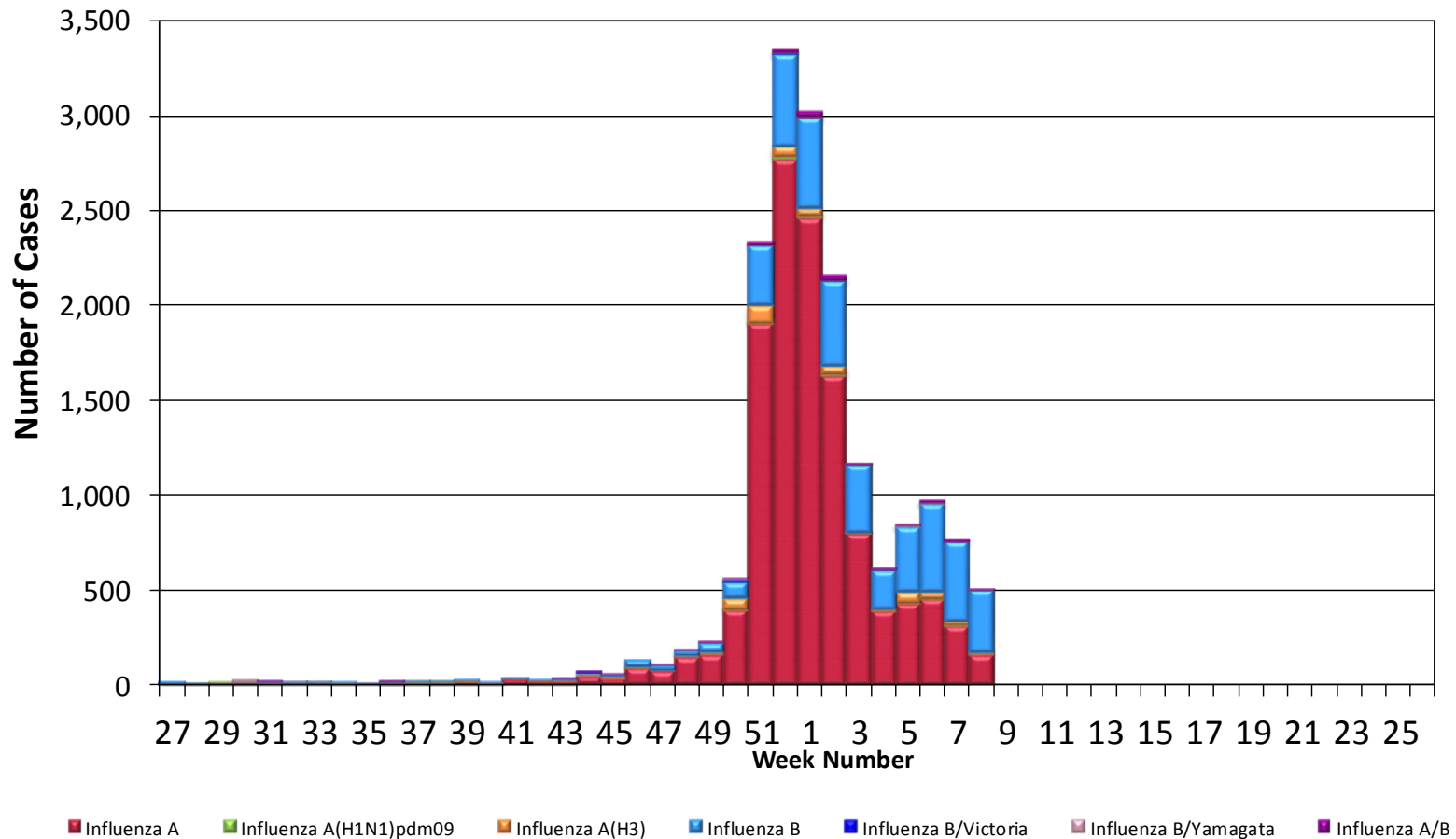
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# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



LIVE WELL  
SAN DIEGO

**Figure 2. San Diego County Influenza Detections by Type and Week of Report, 2017-18 FYTD (N=17,375)**



Preliminary Results

Data Source: Reported Influenza Case Reports

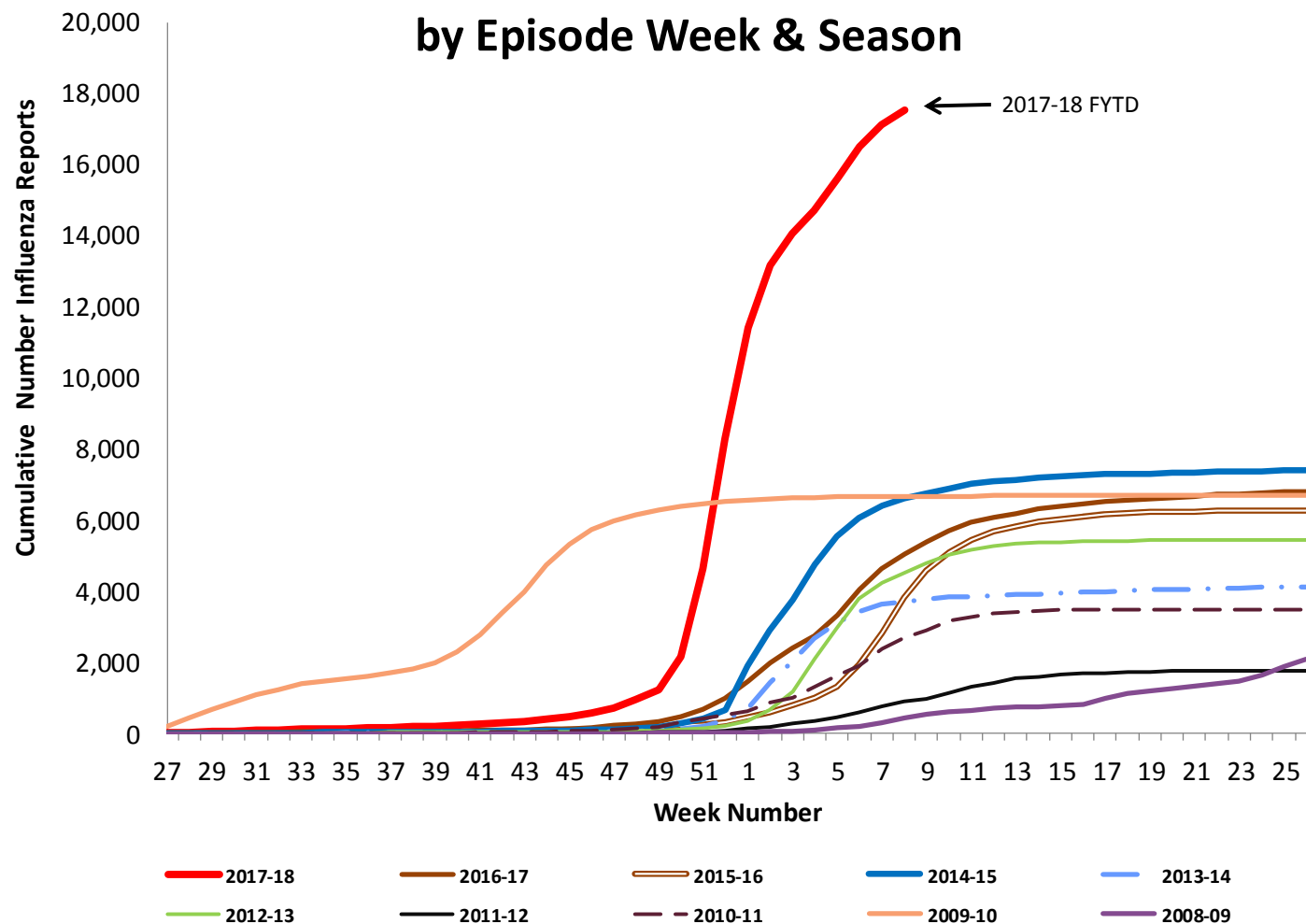
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 4. Cumulative Influenza Case Reports  
by Episode Week & Season**



Preliminary Results

Data Source: Reported Influenza Case Reports

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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Table 2. Influenza Detections Reported, FY 2017-18\***

<b>Positive Test Type/Subtype</b>	<b>Week 8</b>	<b>Total FY-To-Date</b>
Influenza A†	156	12,406
Influenza A(H1N1) Pandemic 2009	0	52
Influenza A (H3) Seasonal	15	548
Influenza B†	326	4,150
Influenza B/Victoria	0	18
Influenza B/Yamagata	2	36
Influenza A/B†	2	165
<b>Total</b>	<b>501</b>	<b>17,375</b>

\* FY is July 1- June 30.

† No further characterization performed, or results were not yet available at time of publication.

Note: Totals may change due to further laboratory findings.

Preliminary Results

Data Source: Reported Influenza Case Reports

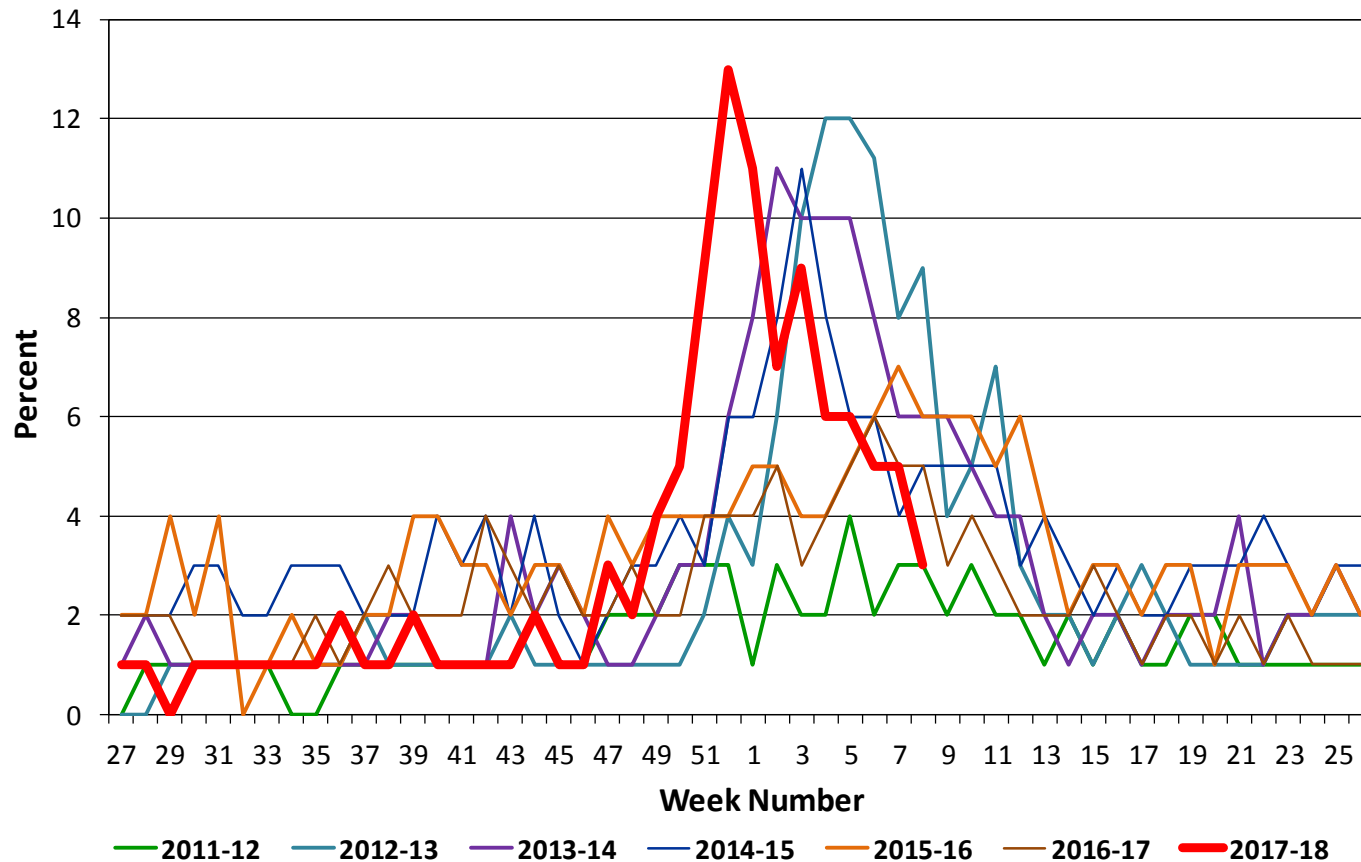
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# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 1. Percent of Emergency Department Visits for Influenza-like Illness by Week and FY**



Preliminary Results

Data Source: Reported Influenza Case Reports

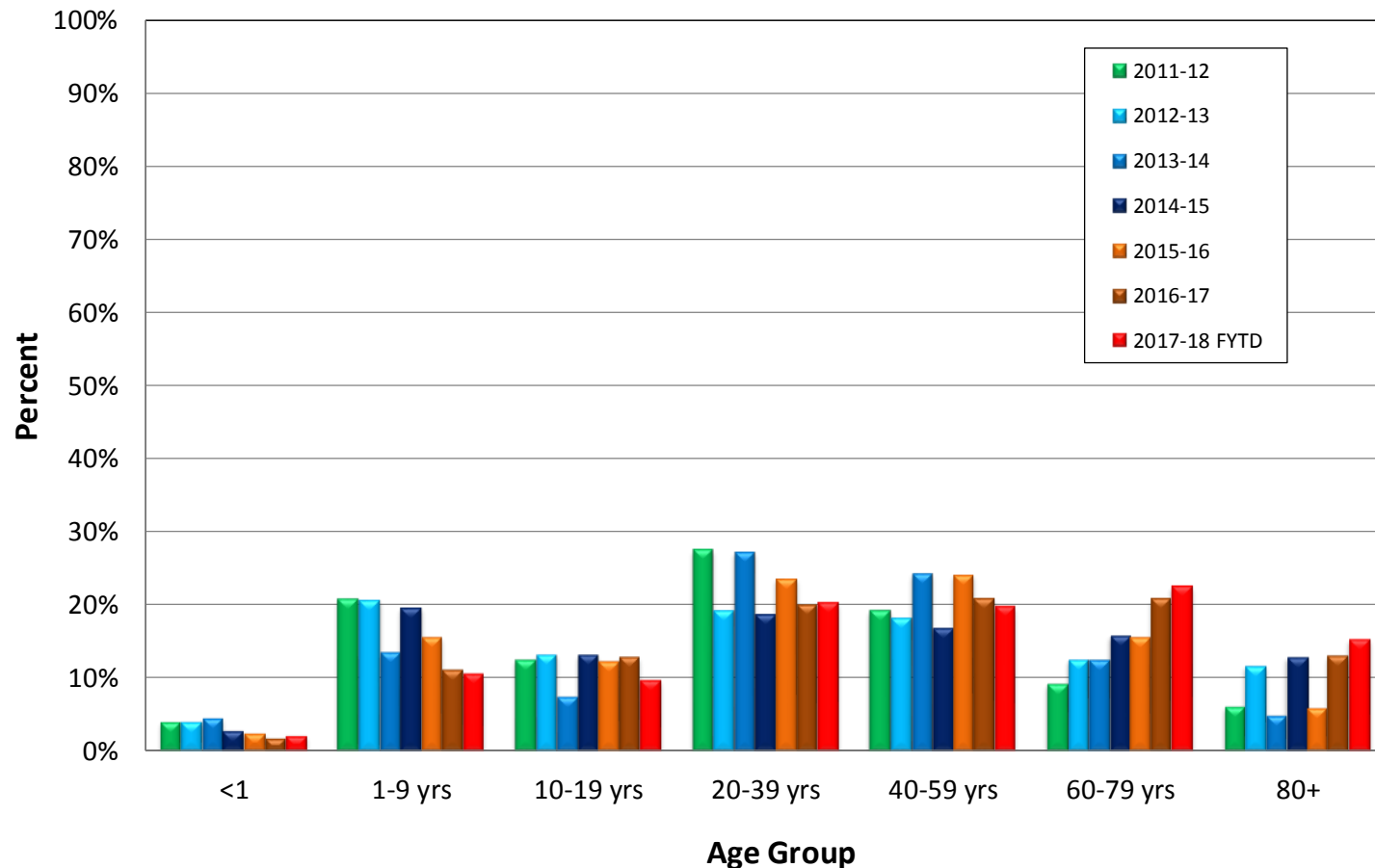
Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 3. Percent of Reported Influenza Cases by Age Group and Season, 2011-12 to 2017-18 FYTD**



Preliminary Results

Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency,  
Public Health Services, Epidemiology and Immunization Services Branch

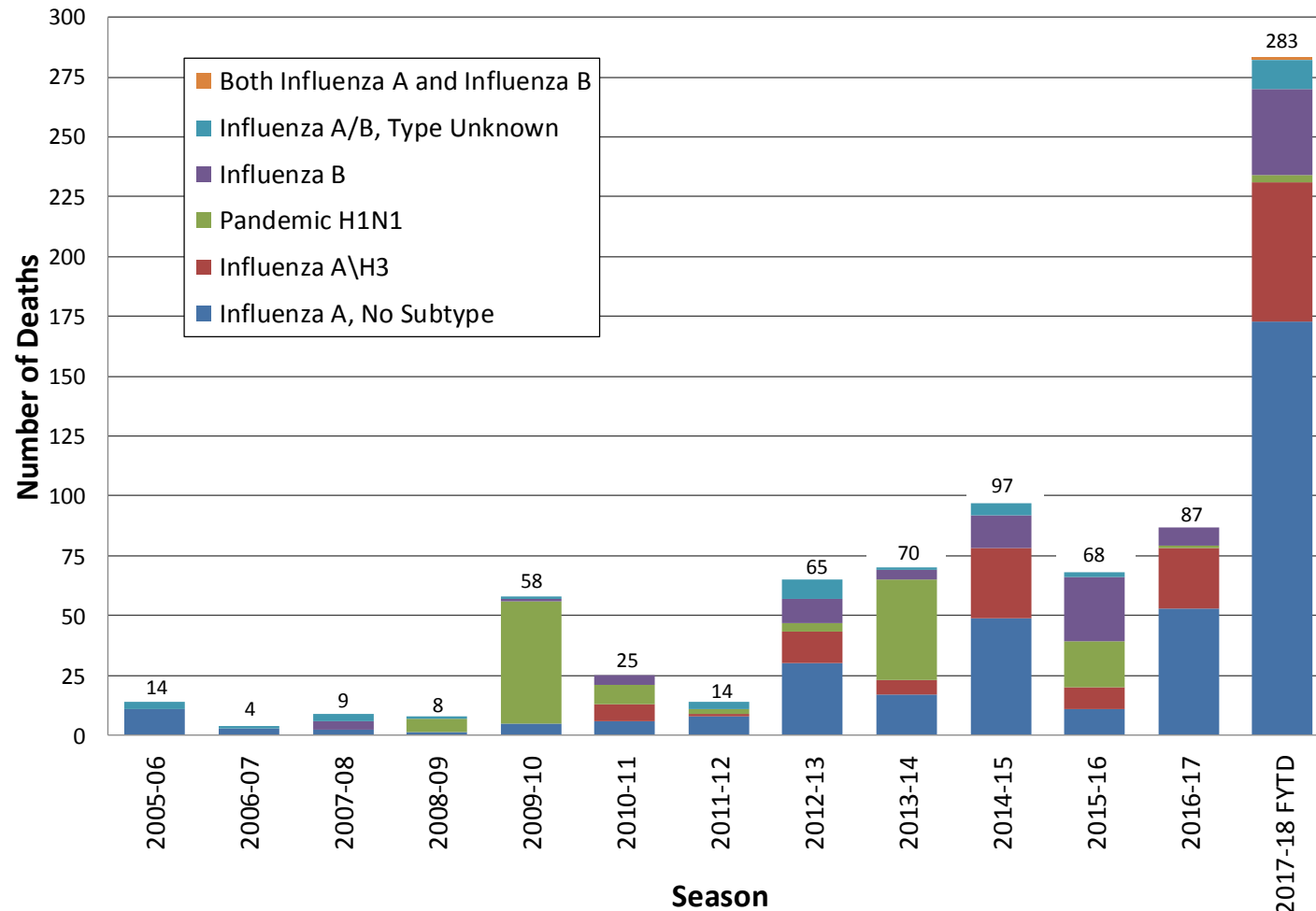
2/28/2018



# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 7. Influenza Deaths by Type and Season**



Preliminary Results

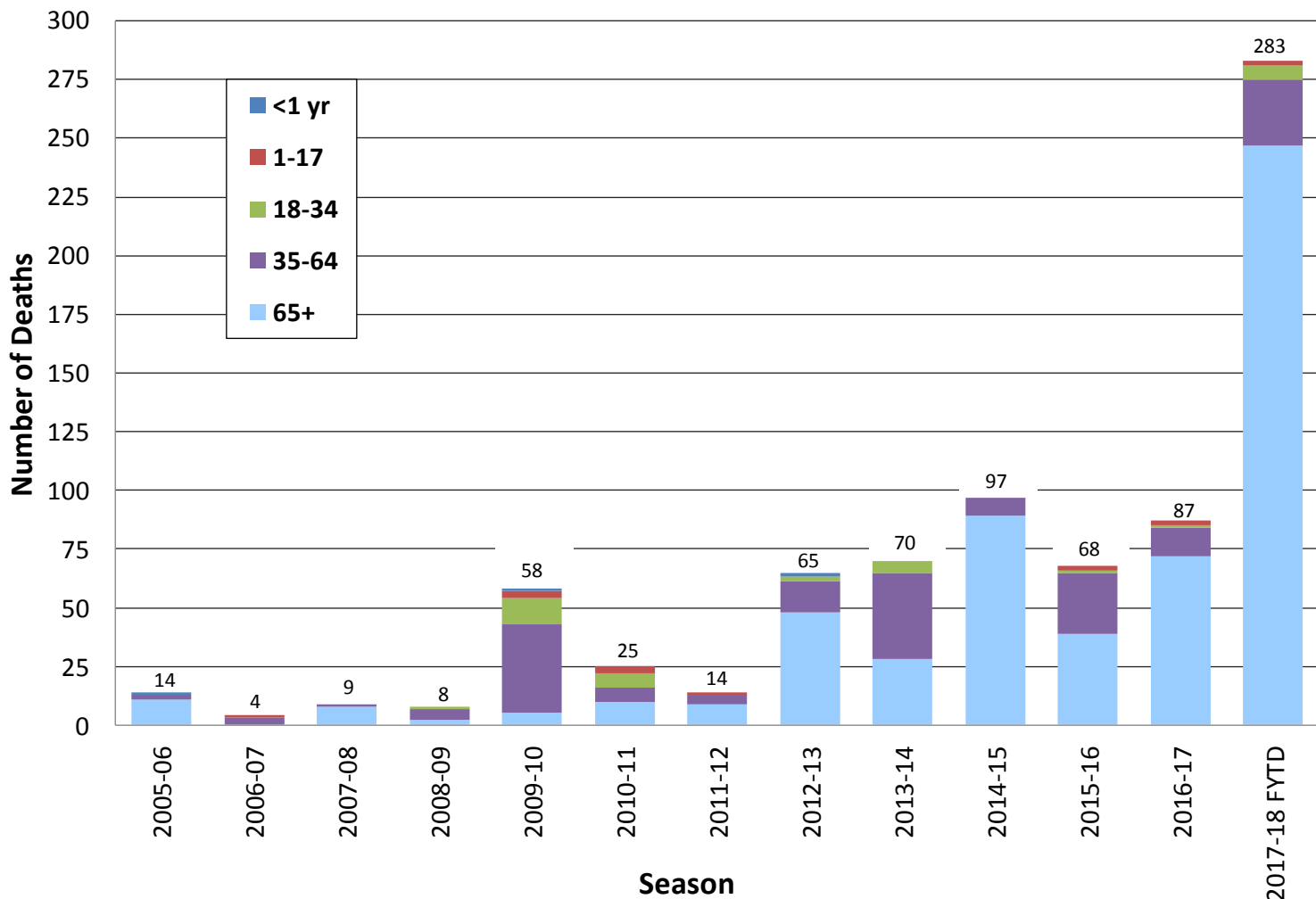
Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency,  
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# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 8. Influenza Deaths by Age and Season**



Preliminary Results

Data Source: Reported Influenza Case Reports

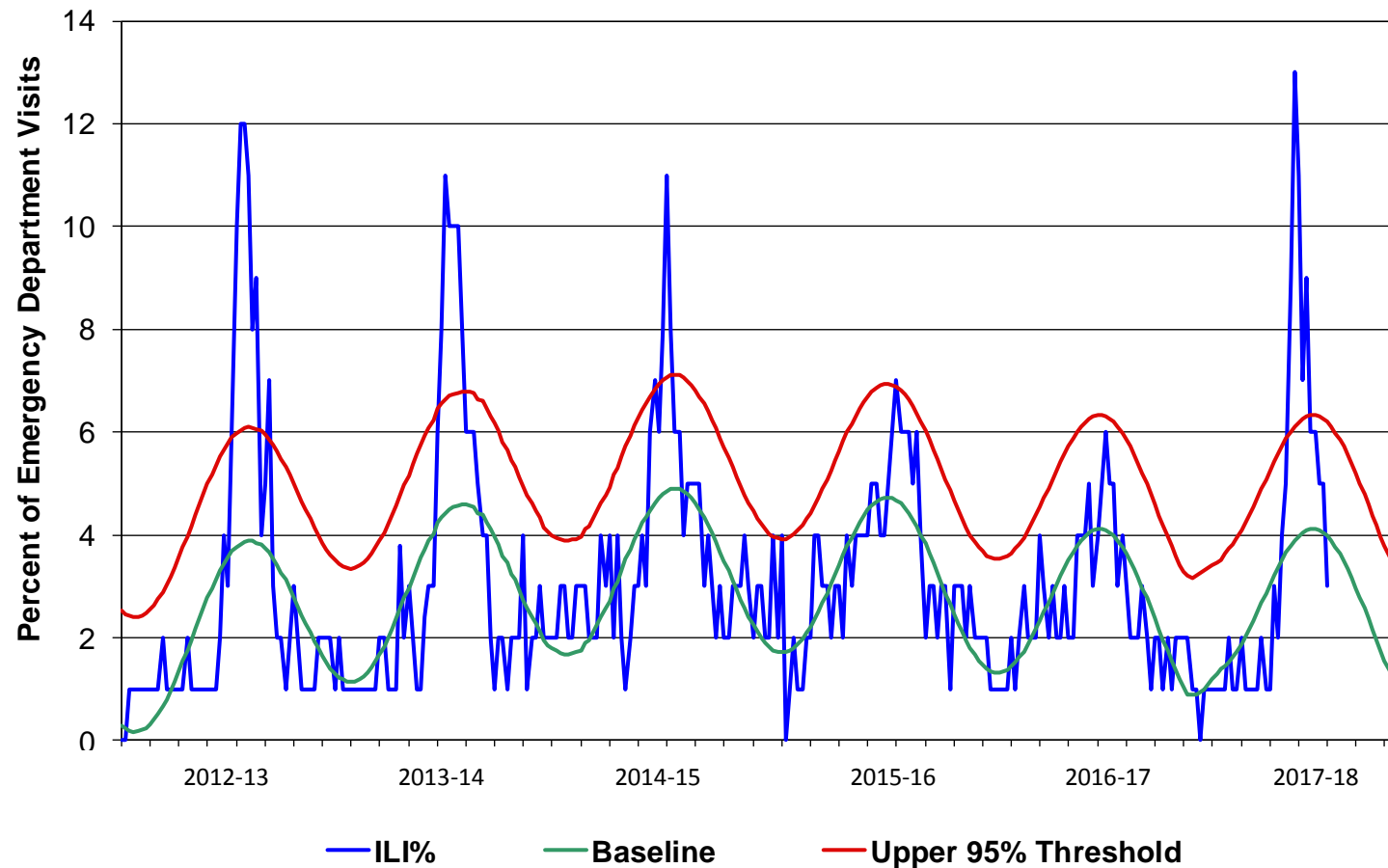
Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 5. Percent of San Diego County Emergency Department Visits for Influenza-like Illness by Week and FY Compared to 5-Year Baseline & Upper 95% Threshold Values (Serfling Method)**



Preliminary Results

Data Source: Reported Influenza Case Reports

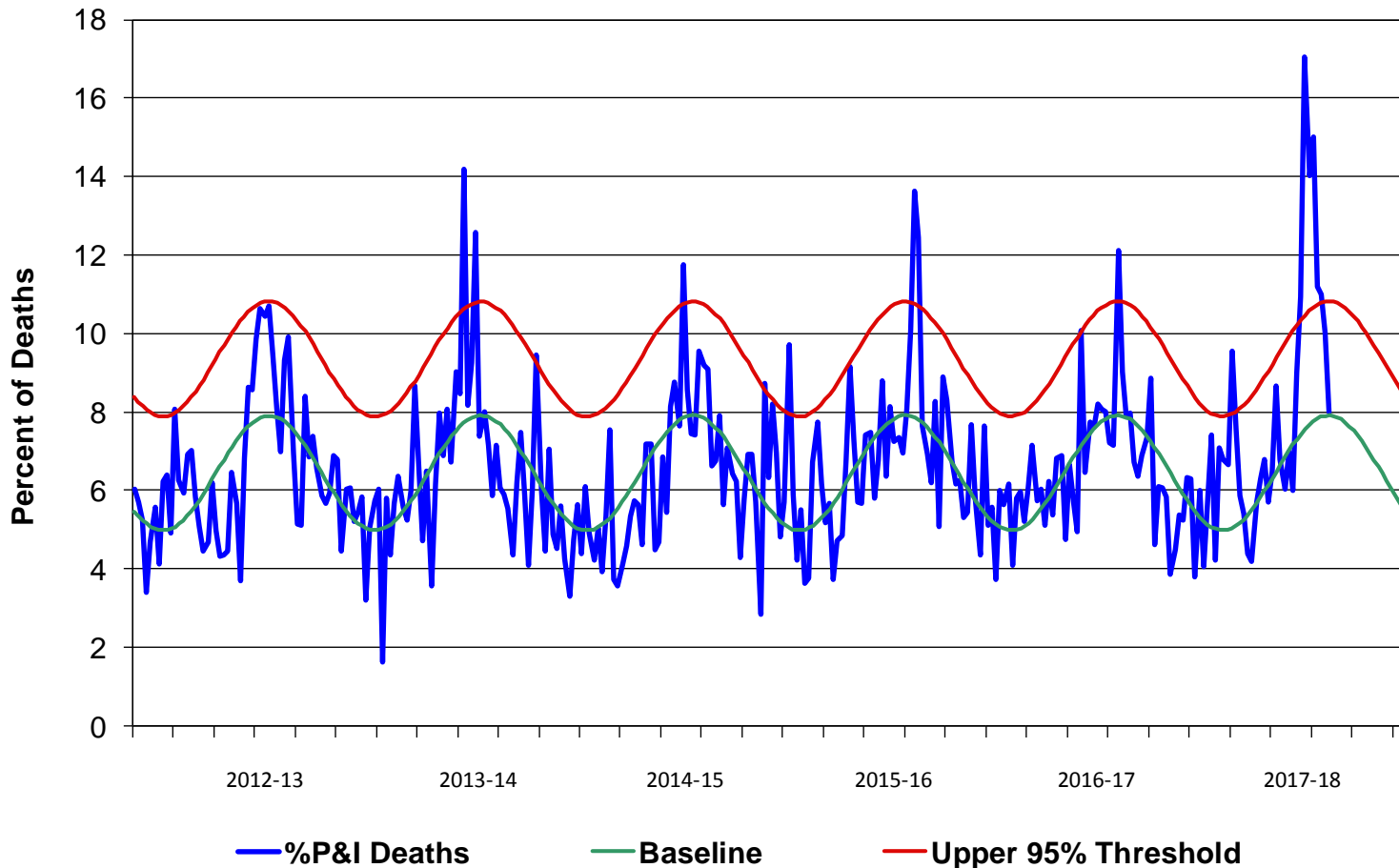
Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 6. Percent of San Diego County Deaths Registered with Pneumonia and/or Influenza by Week and FY Compared to Prior 5-Year Baseline & Upper 95% Threshold Values (Serfling Method)**



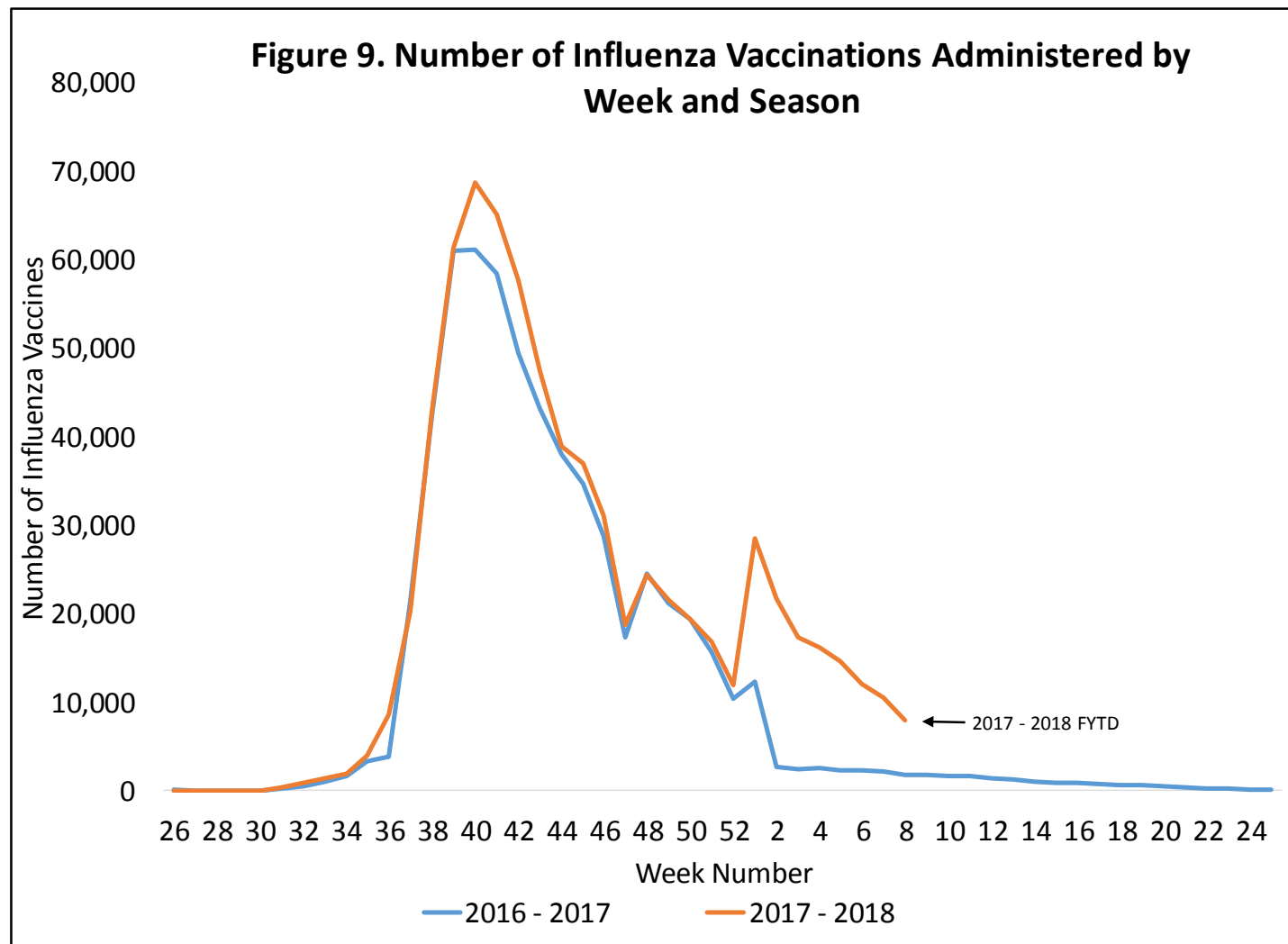
Preliminary Results

Data Source: Reported Influenza Case Reports

Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



Preliminary Results

Data Source: San Diego Immunization Registry

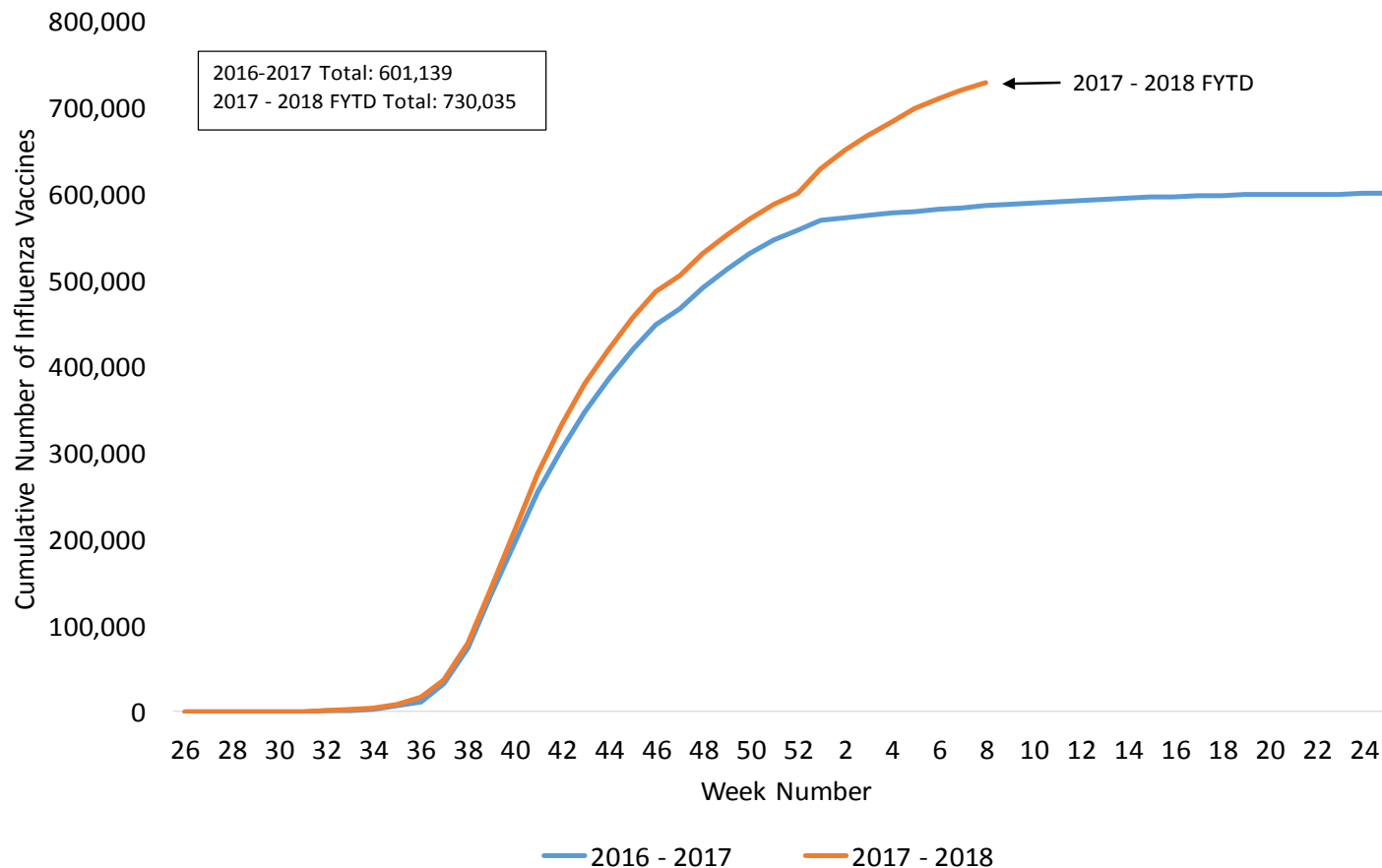
Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 10. Cumulative Number of Influenza Vaccinations Administered by Week and Season**



Preliminary Results

Data Source: San Diego Immunization Registry

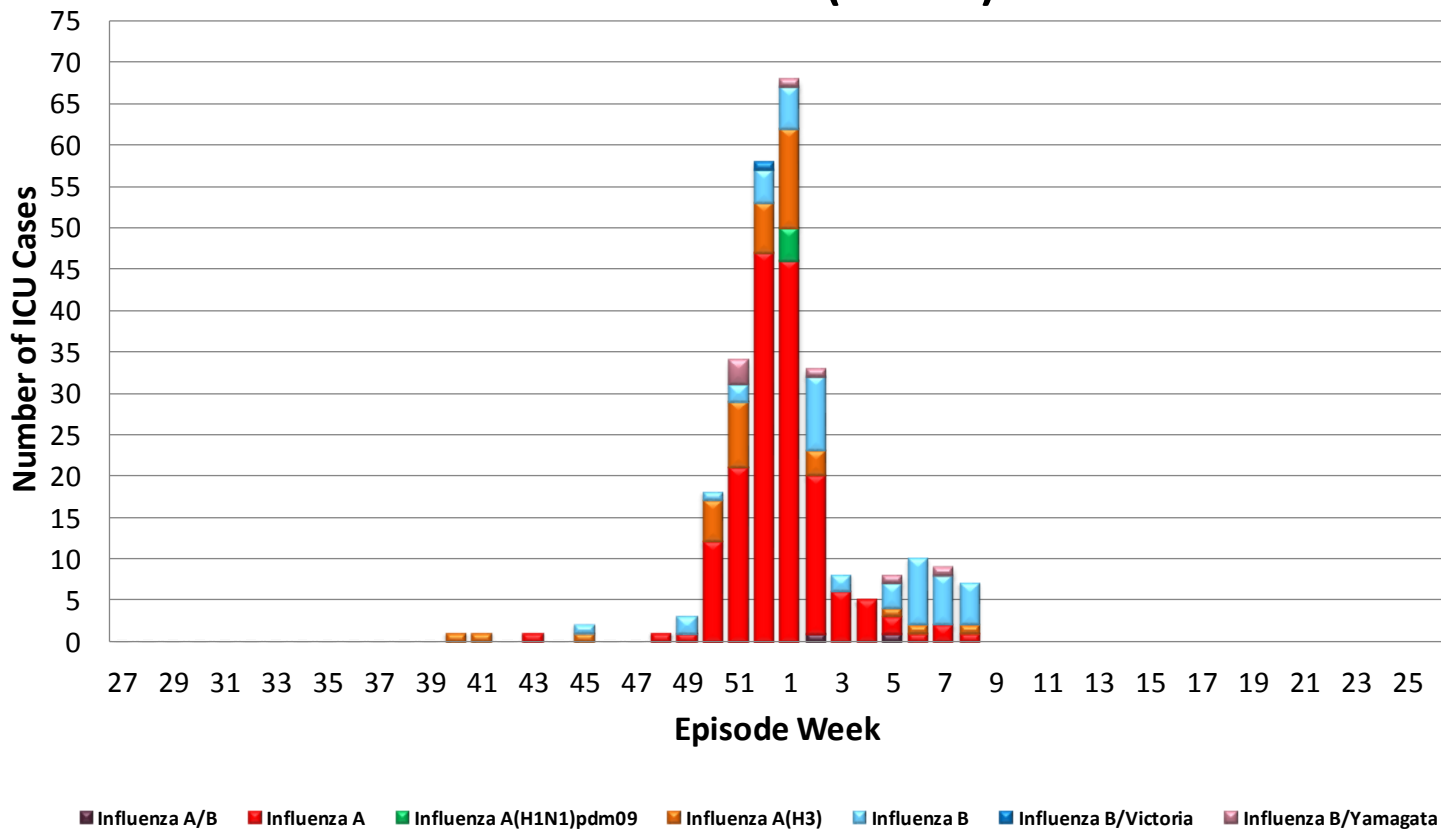
Prepared by County of San Diego, Health & Human Services Agency,  
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2/28/2018

# INFLUENZA SURVEILLANCE UPDATE, 2017-18 YTD



**Figure 11. Number of Influenza Cases Requiring ICU Care by Episode Week and Type of Influenza, 2017-18 FYTD (N=267)**



Preliminary Results

Data Source: Reported Influenza Case Reports  
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2/28/2018



## Influenza Deaths in Children

A Centers for Disease Control and Prevention (CDC) [study](#) published this month shows just how vulnerable U.S. children are to influenza (flu) each year. The study analyzed 675 reported flu-related deaths in children younger than 18 over the course of six flu seasons from October 2010 through September 2016. Results showed that half of flu-related deaths occurred in otherwise healthy children, 27% of whom had not received a seasonal flu vaccination.

The new report is an update to a [2013 CDC study](#) that showed similar findings regarding overall flu risk in children. One notable difference, however, was the increase in flu-related deaths among healthy children. In the prior study, fewer than 40% of children who died had no underlying high-risk medical conditions. The updated study also showed antiviral treatment was only given in about half of all pediatric flu deaths. CDC [recommends](#) that flu antiviral drugs be started as soon as possible when young children and children with high-risk conditions are suspected of having the flu.

During 2010-2016, young children continued to be at the greatest risk for flu-associated pediatric deaths. Vaccination coverage was low (31%) among the children who died. This supports the CDC [recommendation](#) that all children 6 months of age and older should receive an annual flu vaccination. Pregnant women and caregivers of infants should also get vaccinated to help protect them.

The CDC study stressed how quickly the flu can become life-threatening for children. Nearly two-thirds of children died within seven days of developing symptoms. Over one-third died at home or in the emergency department prior to hospital admission. Children without other medical conditions that would predispose them to serious flu complications were more likely to die before hospital admission. This is a reminder that parents should seek prompt medical care for young children and children at high risk for flu complications with flu symptoms.

The study can be found in *Pediatrics* here: [Influenza-Associated Pediatric Deaths in the United States, 2010–2016](#). An accompanying commentary in the journal can be found here: [What Have We Learned About Influenza Deaths in Children and How Can We Do Better?](#)